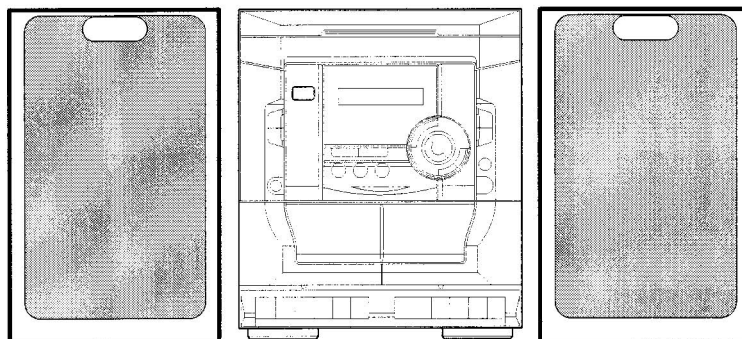




NSX-SZ103 K

NSX-SZ107 EZ



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-2 PR1 NC
BASIC CD MECHANISM : BZG-2 ZD4NC
BZG-2 ZD4N

SYSTEM	CD CASSEIVER	CD MECHANISM	SPEAKER	REMOTE CONTROLLER
NSX-SZ103	CX-NSZ103	BZG-2 ZD4NC	SX-NSZ102	RC-AAS11
NSX-SZ107	CX-NSZ107	BZG-2 ZD4N	SX-NSZ107	RC-ZAS17

aiwa

S/M Code No. 09-012-441-4S1

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminal	75 ohms (unbalanced)

<MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	EZ: Rated: 8 W + 8 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN45500) Reference: 10 W + 10 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN45324) DIN MUSIC POWER: 30 W + 30 W K: Rated: 15 W + 15 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN45500) Reference: 18 W + 18 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN45324) EZ: 0.1 % (4 W, 1 kHz, 6 ohms, DIN AUDIO) K: 0.1 % (7.5 W, 1 kHz, 6 ohms, DIN AUDIO)
Total harmonic distortion	VIDEO/AUX: 500 mV SPEAKERS: 6 ohms or more PHONES: 32 ohms or more
Inputs	
Output	

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 8000 Hz
Recording system	AC bias
Heads	Deck 1: recording/playback x 1, erase x 1 Deck 2: playback x 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

<Speaker system SX–NSZ102/SX–NSZ107>

Speaker system	1 way, bass reflex (magnetic shielded)
Speaker units	Full range: 100 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	196 x 301 x 188 mm
Weight	1.5 kg

<General>

Power requirements	EZ: 230 V AC, 50 Hz K: 230 – 240 VAC, 50 Hz
Power consumption	EZ: 45 W K: 58 W
Dimensions (W x H x D)	260 x 301 x 292 mm
Weight	EZ: 4.3 kg K: 4.5 kg

• Design and specifications are subject to change without notice.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C51	87-010-247-080		CAP, E 100-50 SME<K>
	87-A21-893-040		C-IC, NJM14558V-TE2	C51	87-A12-095-080		CAP, E 100-50 SMG<EZ>
	87-A21-419-040		C-IC, NJM14558MD-TE2	C60	87-010-403-080		CAP, E 3.3-50 SME<K>
	8B-NFC-602-030		C-IC, UPD780226GF-023-3BA	C60	87-A12-089-080		CAP, E 3.3-50 SMG<EZ>
	87-A21-218-010		IC, NJL64H380A	C61	87-010-260-080		CAP, E 47-25 SME<K>
	87-A21-443-040		C-IC, M62495AFP				
	87-A21-695-010		IC, LA1845L	C61	87-A12-071-080		CAP, E 47-25 SMG<EZ>
	87-A21-928-010		IC, LC72131D-N	C74	87-010-759-080		C-CAP, U, 0.1-25F
TRANSISTOR				C101	87-012-284-080		CAP, U 6800P-50
	87-A30-494-080		TR, 2SA1980G	C102	87-012-284-080		CAP, U 6800P-50
	87-A30-476-010		TR, KTA1046Y	C103	87-010-544-080		CAP, E 0.1-50 SME<K>
	87-A30-492-080		TR, 2SC5343G<K>				
	87-A30-076-080		C-TR, 2SC3052F	C103	87-A12-083-080		CAP, E 0.1-50 SMG<EZ>
	87-A30-075-080		C-TR, 2SA1235F	C104	87-010-544-080		CAP, E 0.1-50 SME<K>
	87-A30-256-010		TR, 2SD1933	C104	87-A12-083-080		CAP, E 0.1-50 SMG<EZ>
	87-A30-255-010		TR, 2SB1342	C105	87-012-282-080		CAP, U 4700P-50
	87-A30-234-080		TR, CSC4115BC	C106	87-012-282-080		CAP, U 4700P-50
	87-A30-091-080		FET, 2SJ460				
	87-A30-090-080		FET, 2SK2541	C107	87-010-403-080		CAP, E 3.3-50 SME<K>
	87-A30-062-080		C-TR, KRC104S	C107	87-A12-089-080		CAP, E 3.3-50 SMG<EZ>
	87-A30-495-080		TR, 2SA1981Y	C108	87-010-403-080		CAP, E 3.3-50 SME<K>
	89-327-143-080		C-TR, 2SC2714 (0.1W)	C108	87-A12-089-080		CAP, E 3.3-50 SMG<EZ>
	87-A30-489-080		C-TR, KRA107S	C109	87-012-195-080		C-CAP, U 100P-50CH
	89-503-602-080		C-FET, 2SK360E				
	87-A30-086-040		C-TR, CSD1306E	C110	87-012-195-080		C-CAP, U 100P-50CH
	87-A30-484-080		C-TR, KRA102S	C111	87-010-406-080		CAP, E 22-50 SME<K>
	87-026-610-080		TR, KTC3198GR<EZ>	C111	87-A10-092-080		CAP, E 22-50 SMG<EZ>
	87-A30-615-080		TR, STC250<EZ>	C112	87-010-406-080		CAP, E 22-50 SME<K>
DIODE				C112	87-A10-092-080		CAP, E 22-50 SMG<EZ>
	87-A40-455-090		DIODE, RL203 GW				
	87-A40-553-080		DIODE, 1N4003 LES	C113	87-012-199-080		C-CAP, U 220P-50CH<EZ>
	87-A40-777-080		ZENER, UZ30BSB	C113	87-A10-946-080		C-CAP, U 220P-100<K>
	87-A40-291-080		DIODE, 1N4148 (CPT)	C114	87-A10-946-080		C-CAP, U 220P-100<K>
	87-A40-764-080		ZENER, UZ10BSC	C114	87-012-199-080		C-CAP, U 220P-50CH<EZ>
	87-A40-269-080		C-DIODE, MC2836	C117	87-012-286-080		CAP, U 0.01-25
	87-A40-270-080		C-DIODE, MC2838				
	87-A40-749-080		ZENER, UZ5.6BSB	C118	87-012-286-080		CAP, U 0.01-25
	87-A40-739-080		ZENER, UZ2.7BSA	C119	87-012-286-080		CAP, U 0.01-25
	87-017-149-080		ZENER, HZS6A2L	C120	87-012-286-080		CAP, U 0.01-25
	87-A40-760-080		ZENER, UZ9.1BSA	C123	87-012-280-080		CAP, U 3300-50 KB
MAIN C.B				C124	87-012-280-080		CAP, U 3300-50 KB
C9	87-010-759-080		C-CAP, U, 0.1-25F				
C10	87-010-759-080		C-CAP, U, 0.1-25F	C125	87-010-759-080		C-CAP, U, 0.1-25F
C11	87-010-759-080		C-CAP, U, 0.1-25F	C126	87-010-759-080		C-CAP, U, 0.1-25F
C12	87-010-759-080		C-CAP, U, 0.1-25F	C127	87-010-759-080		C-CAP, U, 0.1-25F
C21	87-A12-442-000		CAP, E 3300-25 M 85 IV LELON<EZ>	C128	87-010-759-080		C-CAP, U, 0.1-25F
C21	87-A12-440-000		CAP, E 3300-35 M 85 IV LELON<K>	C129	87-012-276-080		CAP, CHIP SS 1500 PBK
C22	87-A10-831-080		CAP, E 1000-25 M SMG<EZ>				
C22	87-A12-441-000		CAP, E 2200-35 M 85 IV LELON<K>	C130	87-012-276-080		CAP, CHIP SS 1500 PBK
C25	87-010-407-080		CAP, E 33-50 SME<K>	C140	86-ZA1-616-080		C-CAP, U 0.01-50 K B {MUR}
C25	87-A12-094-080		CAP, E 47-50 SMG<EZ>	C401	87-010-759-080		C-CAP, U, 0.1-25F
C26	87-010-407-080		CAP, E 33-50 SME<K>	C402	87-010-759-080		C-CAP, U, 0.1-25F
C26	87-A12-094-080		CAP, E 47-50 SMG<EZ>	C403	87-012-193-080		C-CAP, U 82P-50 CH
C31	87-010-759-080		C-CAP, U, 0.1-25F				
C32	87-012-286-080		CAP, U 0.01-25	C404	87-012-193-080		C-CAP, U 82P-50 CH
C34	87-010-260-080		CAP, E 47-25 SME<K>	C405	87-012-286-080		CAP, U 0.01-25
C34	87-A12-071-080		CAP, E 47-25 SMG<EZ>	C406	87-012-286-080		CAP, U 0.01-25
C35	87-A10-092-080		CAP, E 22-50 SMG<EZ>	C407	87-012-286-080		CAP, U 0.01-25
C35	87-010-406-080		CAP, E 22-50 SME<K>	C408	87-012-286-080		CAP, U 0.01-25
C36	87-010-112-080		CAP, E 100-16 SME<K>				
C36	87-A10-918-080		CAP, E 100-16 SMG<EZ>	C409	87-012-278-080		C-CAP, U 2200P-50 B
C50	87-010-247-080		CAP, E 100-50 SME<K>	C410	87-012-278-080		C-CAP, U 2200P-50 B
C50	87-A12-095-080		CAP, E 100-50 SMG<EZ>	C411	87-010-405-080		CAP, E 10-50 SME<K>
				C411	87-A12-091-080		CAP, E 10-50 SMG<EZ>
				C412	87-010-405-080		CAP, E 10-50 SME<K>
				C412	87-A12-091-080		CAP, E 10-50 SMG<EZ>
				C413	87-012-286-080		CAP, U 0.01-25
				C421	87-012-275-080		C-CAP, U 1200P-50 B
				C422	87-012-275-080		C-CAP, U 1200P-50 B
				C423	87-012-274-080		CHIP CAP, U 1000P-50B
				C424	87-012-274-080		CHIP CAP, U 1000P-50B
				C425	87-010-263-080		CAP, E 100-10 SME<K>
				C425	87-A12-062-080		CAP, E 100-10 SMG<EZ>
				C426	87-A12-062-080		CAP, E 100-10 SMG<EZ>
				C426	87-010-263-080		CAP, E 100-10 SME<K>
				C427	87-012-188-080		C-CAP, U 47P-50 CH
				C428	87-012-188-080		C-CAP, U 47P-50 CH
				C429	87-010-956-080		CHIP-CAP, S 0.068-25B
				C430	87-010-956-080		CHIP-CAP, S 0.068-25B
				C431	87-012-284-080		CAP, U 6800P-50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C432	87-012-284-080		CAP, U 6800P-50	C796	87-012-286-080		CAP, U 0.01-25
C433	87-010-546-080		CAP, E 0.33-50 SME<K>	C797	87-010-405-080		CAP, E 10-50 SME<K>
C433	87-A12-085-080		CAP, E 0.33-50 SMG<EZ>	C797	87-A12-091-080		CAP, E 10-50 SMG<EZ>
C434	87-010-546-080		CAP, E 0.33-50 SME<K>	C798	87-012-286-080		CAP, U 0.01-25
C434	87-A12-085-080		CAP, E 0.33-50 SMG<EZ>	C799	87-010-407-080		CAP, E 33-50 SME<K>
C435	87-010-263-080		CAP, E 100-10 SME<K>	C799	87-A12-093-080		CAP, E 33-50 SMG<EZ>
C435	87-A12-062-080		CAP, E 100-10 SMG<EZ>	C800	87-010-829-080		CAP, U 0.047-16
C436	87-010-759-080		C-CAP, U, 0.1-25F	C801	87-010-403-080		CAP, E 3.3-50 SME<K>
C437	87-010-759-080		C-CAP, U, 0.1-25F	C801	87-A12-089-080		CAP, E 3.3-50 SMG<EZ>
C439	87-010-759-080		C-CAP, U, 0.1-25F	C802	87-010-829-080		CAP, U 0.047-16
C440	87-010-759-080		C-CAP, U, 0.1-25F	C803	87-010-787-080		CAP, U 0.022-25
C441	87-010-759-080		C-CAP, U, 0.1-25F	C804	87-010-263-080		CAP, E 100-10 SME<K>
C442	87-010-759-080		C-CAP, U, 0.1-25F	C804	87-A12-062-080		CAP, E 100-10 SMG<EZ>
C443	87-010-759-080		C-CAP, U, 0.1-25F	C807	87-010-400-080		CAP, E 0.47-50 SME<K>
C444	87-012-197-080		C-CAP, U 150P-50 CH	C807	87-A12-086-080		CAP, E 0.47-50 SMG<EZ>
C445	87-A10-039-080		C-CAP, U 470P-50 J CH	C808	87-A12-087-080		CAP, E 1-50 SMG<EZ>
C452	87-010-382-080		CAP, E 22-25 SME<K>	C808	87-010-401-080		CAP, E 1-50 M 11 L SME<K>
C452	87-A12-069-080		CAP, E 22-25 SMG<EZ>	C809	87-A12-087-080		CAP, E 1-50 SMG<EZ>
C453	87-012-279-080		C-CAP, U 2700P-50 B	C809	87-010-401-080		CAP, E 1-50 M 11 L SME<K>
C454	87-012-279-080		C-CAP, U 2700P-50 B	C810	87-010-759-080		C-CAP, U, 0.1-25F
C455	87-012-279-080		C-CAP, U 2700P-50 B	C814	87-012-286-080		CAP, U 0.01-25
C456	87-012-286-080		CAP, U 0.01-25	C815	87-A12-086-080		CAP, E 0.47-50 SMG<EZ>
C457	87-A12-361-080		CAP, M 5600P-100 J CP	C815	87-010-400-080		CAP, E 0.47-50 M 11 L SME<K>
C458	87-012-274-080		CHIP CAP, U 1000P-50B	C816	87-A12-086-080		CAP, E 0.47-50 SMG<EZ>
C459	87-010-175-080		CAP 560P	C816	87-010-400-080		CAP, E 0.47-50 M 11 L SME<K>
C460	87-010-759-080		C-CAP, U, 0.1-25F	C818	87-012-276-080		CAP, CHIP SS 1500 PBK
C461	87-012-158-080		C-CAP, S 390P-50 CH	C821	87-010-405-080		CAP, E 10-50 SME<K>
C462	87-012-158-080		C-CAP, S 390P-50 CH	C821	87-A12-091-080		CAP, E 10-50 SMG<EZ>
C470	87-A10-039-080		C-CAP, U 470P-50 J CH	C823	87-012-349-080		C-CAP, S 1000P-50 CH
C605	87-012-275-080		C-CAP, U 1200P-50 B	C824	87-010-404-080		CAP, E 4.7-50 SME<K>
C606	87-012-275-080		C-CAP, U 1200P-50 B	C824	87-A12-090-080		CAP, E 4.7-50 SMG<EZ>
C609	87-010-785-080		C-CAP, U 0.015-25BK	C825	87-010-596-080		CAP, S 0.047-16
C610	87-010-785-080		C-CAP, U 0.015-25BK	C831	87-010-406-080		CAP, E 22-50 SME<K>
C611	87-010-545-080		CAP, E 0.22-50 SME<K>	C831	87-A10-092-080		CAP, E 22-50 SMG<EZ>
C611	87-A12-084-080		CAP, E 0.22-50 SMG<EZ>	C836	87-012-286-080		CAP, U 0.01-25
C612	87-010-545-080		CAP, E 0.22-50 SME<K>	C837	87-012-286-080		CAP, U 0.01-25
C612	87-A12-084-080		CAP, E 0.22-50 SMG<EZ>	C842	87-012-286-080		CAP, U 0.01-25
C613	87-010-545-080		CAP, E 0.22-50 SME<K>	C844	87-012-286-080		CAP, U 0.01-25
C613	87-A12-084-080		CAP, E 0.22-50 SMG<EZ>	C850	87-010-260-080		CAP, E 47-25 SME<K>
C614	87-010-545-080		CAP, E 0.22-50 SME<K>	C850	87-A12-071-080		CAP, E 47-25 SMG<EZ>
C614	87-A12-084-080		CAP, E 0.22-50 SMG<EZ>	C851	87-012-286-080		CAP, U 0.01-25
C615	87-012-172-080		CAPACITOR CHIP U 10P CH	C852	87-012-286-080		CAP, U 0.01-25
C616	87-010-248-080		CAP, E 220-10 SME<K>	C853	87-012-286-080		CAP, U 0.01-25
C616	87-A12-063-080		CAP, E 220-10 SMG<EZ>	C858	87-010-759-080		C-CAP, U, 0.1-25F
C617	87-010-221-080		CAP, E 470-10 SME<K>	C859	87-010-759-080		C-CAP, U, 0.1-25F
C617	87-016-459-040		CAP, E 470-10 SMG<EZ>	C860	87-012-286-080		CAP, U 0.01-25
C618	87-010-405-080		CAP, E 10-50 SME<K>	C942	87-012-167-080		C-CAP, U 5P-50 CH
C618	87-A12-091-080		CAP, E 10-50 SMG<EZ>	C947	87-012-286-080		CAP, U 0.01-25
C630	87-A10-260-080		C-CAP, U 0.1-16 K B	C948	87-A10-039-080		C-CAP, U 470P-50 J CH
C669	87-012-195-080		C-CAP, U 100P-50CH	C952	87-012-286-080		CAP, U 0.01-25
C670	87-012-195-080		C-CAP, U 100P-50CH	C957	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C771	87-010-263-080		CAP, E 100-10 SME<K>	C958	87-012-286-080		CAP, U 0.01-25
C771	87-A12-062-080		CAP, E 100-10 SMG<EZ>	C962	87-010-401-080		CAP, E 1-50 SME<K>
C772	87-012-286-080		CAP, U 0.01-25	C962	87-A12-087-080		CAP, E 1-50 SMG<EZ>
C779	87-010-971-080		C-CAP, S 4700P-50 B J	C971	87-010-381-080		CAP, E 330-16 SME<K>
C780	87-010-971-080		C-CAP, S 4700P-50 B J	C971	87-A12-067-080		CAP, E 330-16 SMG<EZ>
C782	87-012-286-080		CAP, U 0.01-25	C972	87-010-404-080		CAP, E 4.7-50 SME<K>
C783	87-012-286-080		CAP, U 0.01-25	C972	87-A12-090-080		CAP, E 4.7-50 SMG<EZ>
C784	87-012-286-080		CAP, U 0.01-25	C973	87-012-286-080		CAP, U 0.01-25
C785	87-012-286-080		CAP, U 0.01-25	C974	87-012-286-080		CAP, U 0.01-25
C786	87-012-286-080		CAP, U 0.01-25	C979	87-012-195-080		C-CAP, U 100P-50CH
C788	87-012-167-080		C-CAP, U 5P-50 CH	C981	87-010-260-080		CAP, E 47-25 SME<K>
C789	87-A10-801-080		C-CAP, S 0.022-16 J B CM	C981	87-A12-071-080		CAP, E 47-25 SMG<EZ>
C790	87-A10-801-080		C-CAP, S 0.022-16 J B CM	C982	87-010-759-080		C-CAP, U, 0.1-25F
C791	87-010-759-080		C-CAP, U, 0.1-25F	C983	87-012-286-080		CAP, U 0.01-25
C792	87-012-286-080		CAP, U 0.01-25	C984	87-012-286-080		CAP, U 0.01-25
C793	87-010-404-080		CAP, E 4.7-50 SME<K>	C985	87-012-195-080		C-CAP, U 100P-50CH
C793	87-A12-090-080		CAP, E 4.7-50 SMG<EZ>	C987	87-012-286-080		CAP, U 0.01-25
C794	87-A10-039-080		C-CAP, U 470P-50 J CH	C989	87-012-286-080		CAP, U 0.01-25
C795	87-012-286-080		CAP, U 0.01-25	C990	87-012-195-080		C-CAP, U 100P-50CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C991	87-012-176-080	CAP 15P	
C992	87-012-176-080	CAP 15P	
C993	87-012-274-080	CHIP CAP,U 1000P-50B	
C994	87-012-195-080	C-CAP,U 100P-50CH	
C995	87-012-274-080	CHIP CAP,U 1000P-50B	
C996	87-012-195-080	C-CAP,U 100P-50CH	
C997	87-010-759-080	C-CAP,U, 0.1-25F	
C998	87-010-260-080	CAP,E 47-25 SME<K>	
C998	87-A12-071-080	CAP,E 47-25 SMG<EZ>	
C999	87-A11-155-080	CAP,TC U 0.01-16 Z F	
CF831	87-008-423-010	CERAMIC FILTER, SFE10.7	
CF832	82-785-747-010	CF MS2 GHY R	
CN351	87-A60-625-010	CONN,8P V 2MM JMT	
CN401	87-A60-620-010	CONN,3P V 2MM JMT	
CN602	87-099-194-010	CONN,6P 6216V	
CNA351	8B-NFC-634-010	CONN ASSY,8P RPB	
CNA401	8B-NFC-633-010	CONN ASSY,3P (PH)	
F101	87-A91-207-010	FUSE 315MA 250VT 50T<EZ>	
FC101	87-033-213-080	FUSE CLAMP,PFC5000<EZ>	
FC102	87-033-213-080	FUSE CLAMP,PFC5000<EZ>	
FC602	88-906-251-110	FF-CABLE,6P 1.25	
FFE831	A8-6ZA-199-170	6ZA-1 FEENC<K>	
FFE831	A8-6ZA-19C-170	6ZA-1 YFEENC<EZ>	
J101	87-A61-480-010	JACK,DIA6.3 BLK ST W/SW MSC16A	
J103	87-A61-452-010	TERMINAL,SP 4P(MSC)	
J602	87-A60-881-010	JACK,PIN 2P MSP 242V05 PBN	
J832	87-A60-403-010	TERMINAL,ANT PAL 2P HSP-312V05	
JR621	87-010-598-080	C-CAP,S 0.068-16	
JR622	87-010-598-080	C-CAP,S 0.068-16	
JW001	87-A91-941-080	PROTECTOR,3A 20P 60V<K>	
JW002	87-A91-941-080	PROTECTOR,3A 20P 60V<K>	
JW959	87-A11-155-080	CAP,TC U 0.01-16 Z F	
L101	87-A50-611-010	COIL,1UH K(CS)	
L102	87-A50-611-010	COIL,1UH K(CS)	
L451	87-007-342-010	COIL,OSC 85K BIAS	
L801	87-A50-608-010	COIL,FM DET-N(TOK)	
L802	87-A91-551-010	FLTR,PCFJZH-450 L(TOK)	
L811	87-005-847-080	COIL,2.2UH(CECS)	
L832	87-005-847-080	COIL,2.2UH(CECS)	
L941	87-A50-020-010	COIL,ANT LW(COI)	
L942	87-A50-019-010	COIL,OSC LW(COI)	
L951	8A-NF8-668-010	COIL,AM PACK 2(TOK)	
PT101	8B-NFC-608-010	PT,BNF-C EZ<EZ>	
PT101	8B-NFC-610-010	PT,BNF-C K<K>	
R790	87-012-286-080	CAP, U 0.01-25	
RY101	87-A91-339-010	RELAY,AC DC12V G5PA-2	
T101	87-A60-317-010	TERMINAL, 1P MSC	
T102	87-A60-317-010	TERMINAL, 1P MSC	
TC942	87-A91-774-080	TRIMMER,PLY 30P 6.8X5.4 CDYL	
X992	87-A70-306-010	VIB,XTAL 4.500MHZ CSA-309ST	

FRONT C.B

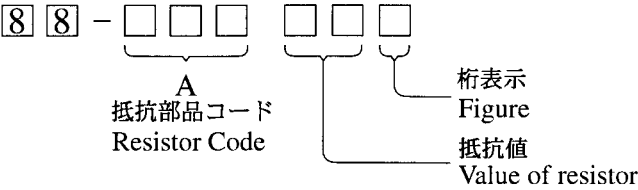
C390	87-010-384-040	CAP,E 100-25 SME
C500	87-010-759-080	C-CAP,U, 0.1-25F
C505	87-010-829-080	CAP, U 0.047-16
C506	87-010-263-040	CAP,E 100-10
C507	87-010-246-040	CAP,E 47-35 SME<K>
C507	87-A12-078-040	CAP,E 47-35 SMG<EZ>
C508	87-010-192-080	C-CAP,S 0.022-50 F
C509	87-010-404-040	CAP,E 4.7-50 SME
C510	87-010-404-040	CAP,E 4.7-50 SME
C516	87-010-831-080	C-CAP,U,0.1-16F
C517	87-010-831-080	C-CAP,U,0.1-16F
C518	87-012-274-080	CHIP CAP,U 1000P-50B
C519	87-012-336-080	CAP, CHIP SS 3300 SL
C520	87-012-282-080	CAP, U 4700P-50
C521	87-010-829-080	CAP, U 0.047-16
C522	87-016-459-040	CAP,E 470-10 SMG
C523	87-010-248-040	CAP,E 220-10 SME

C524	87-010-787-080	CAP, U 0.022-25
C525	87-010-071-040	CAP,E 1-50 M 5L SRE
C526	87-010-405-040	CAP,E 10-50
C527	87-A10-039-080	C-CAP,U 470P-50 J CH
C528	87-010-263-040	CAP,E 100-10 M 11L SME
C530	87-012-195-080	C-CAP,U 100P-50CH
C531	87-012-195-080	C-CAP,U 100P-50CH
C532	87-012-195-080	C-CAP,U 100P-50CH
C533	87-012-195-080	C-CAP,U 100P-50CH
C534	87-012-195-080	C-CAP,U 100P-50CH
C535	87-012-195-080	C-CAP,U 100P-50CH
C536	87-012-195-080	C-CAP,U 100P-50CH
C537	87-012-195-080	C-CAP,U 100P-50CH
C538	87-012-195-080	C-CAP,U 100P-50CH
C539	87-012-195-080	C-CAP,U 100P-50CH
C540	87-010-759-080	C-CAP,U, 0.1-25F
C546	87-010-759-080	C-CAP,U, 0.1-25F
C555	87-012-172-080	CAP 10P-50
C556	87-012-198-080	CAP 180P
C557	87-010-831-080	C-CAP,U,0.1-16F
C558	87-010-831-080	C-CAP,U,0.1-16F
C560	87-012-286-080	CAP, U 0.01-25
CN501	87-A60-673-010	CONN,9P H 2MM JMT
CN502	87-099-196-010	CONN,8P 6216 V
FC502	88-908-201-110	FF-CABLE,8P 1.25
FL501	8B-NFC-601-010	FL,NHA-10SS18T
L501	87-A50-655-010	COIL,CLK 4.19MHZ (TOKO)7LLY
S301	87-A91-024-180	SW,TACT KSH0611BT
S302	87-A91-024-180	SW,TACT KSH0611BT
S303	87-A91-024-180	SW,TACT KSH0611BT
S304	87-A91-024-180	SW,TACT KSH0611BT
S305	87-A91-024-180	SW,TACT KSH0611BT
S306	87-A91-024-180	SW,TACT KSH0611BT
S307	87-A91-024-180	SW,TACT KSH0611BT
S308	87-A91-024-180	SW,TACT KSH0611BT
S309	87-A91-024-180	SW,TACT KSH0611BT
S310	87-A91-024-180	SW,TACT KSH0611BT
S311	87-A91-024-180	SW,TACT KSH0611BT
S312	87-A91-024-180	SW,TACT KSH0611BT
S313	87-A91-024-180	SW,TACT KSH0611BT
S314	87-A91-024-180	SW,TACT KSH0611BT
S315	87-A91-024-180	SW,TACT KSH0611BT
S316	87-A91-024-180	SW,TACT KSH0611BT
SFR391	87-024-431-080	SFR,3.3K RH063EC

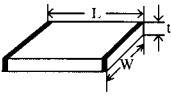
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

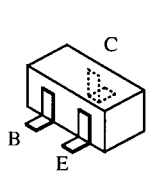
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



2SA1235F
2SC2714
2SC3052F
CSD1306E
KRA102S
KRA107S
KRC104S



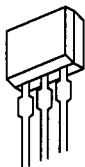
2SA1980G
2SA1981Y
2SC5343G
STC250



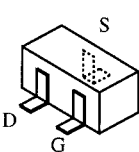
CSC4115BC
KTC3198GR



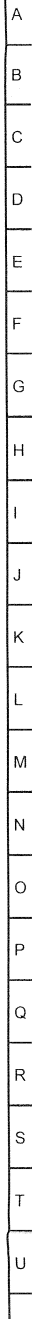
2SD1933
2SB1342
KTA1046Y



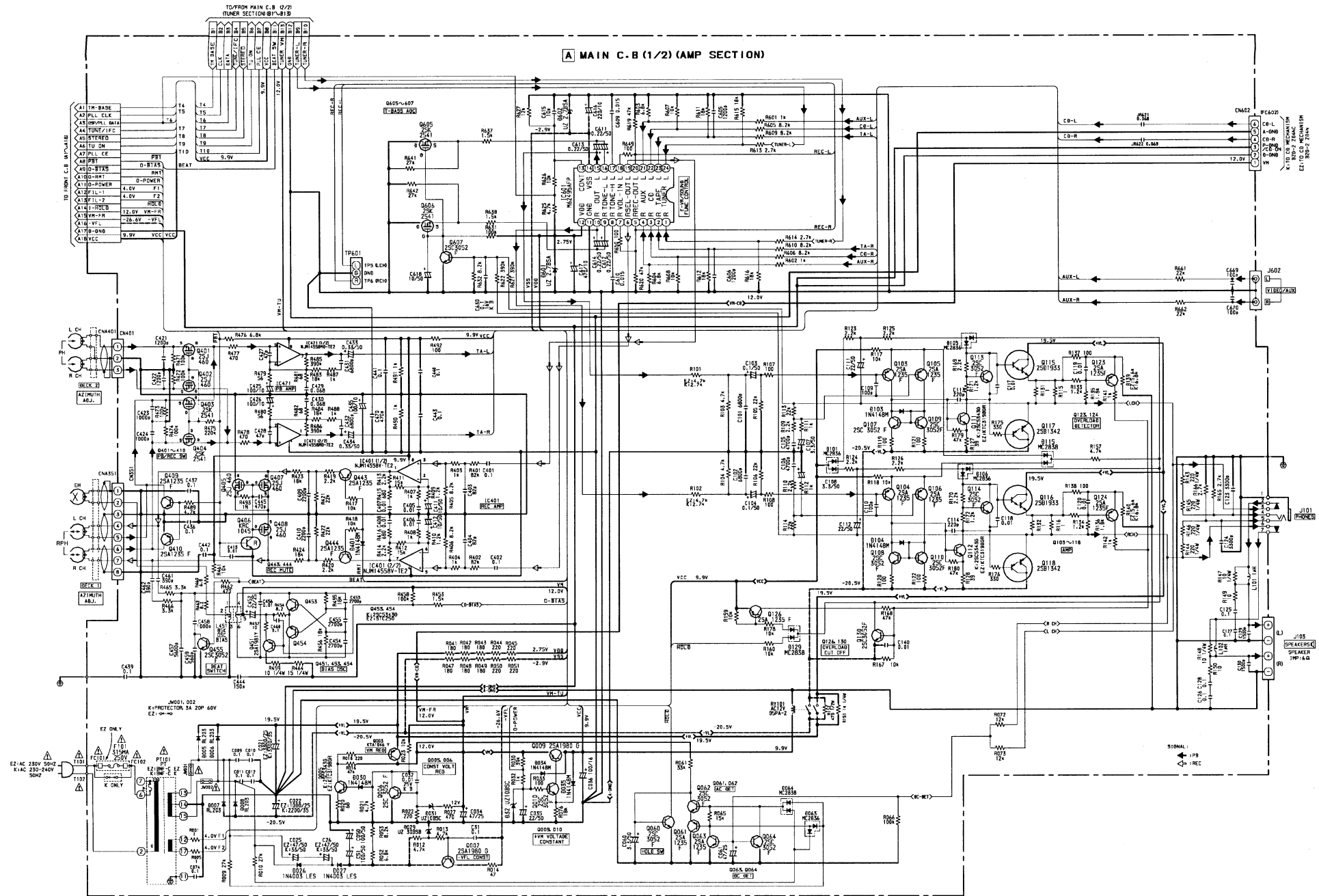
2SK2541
2SJ460



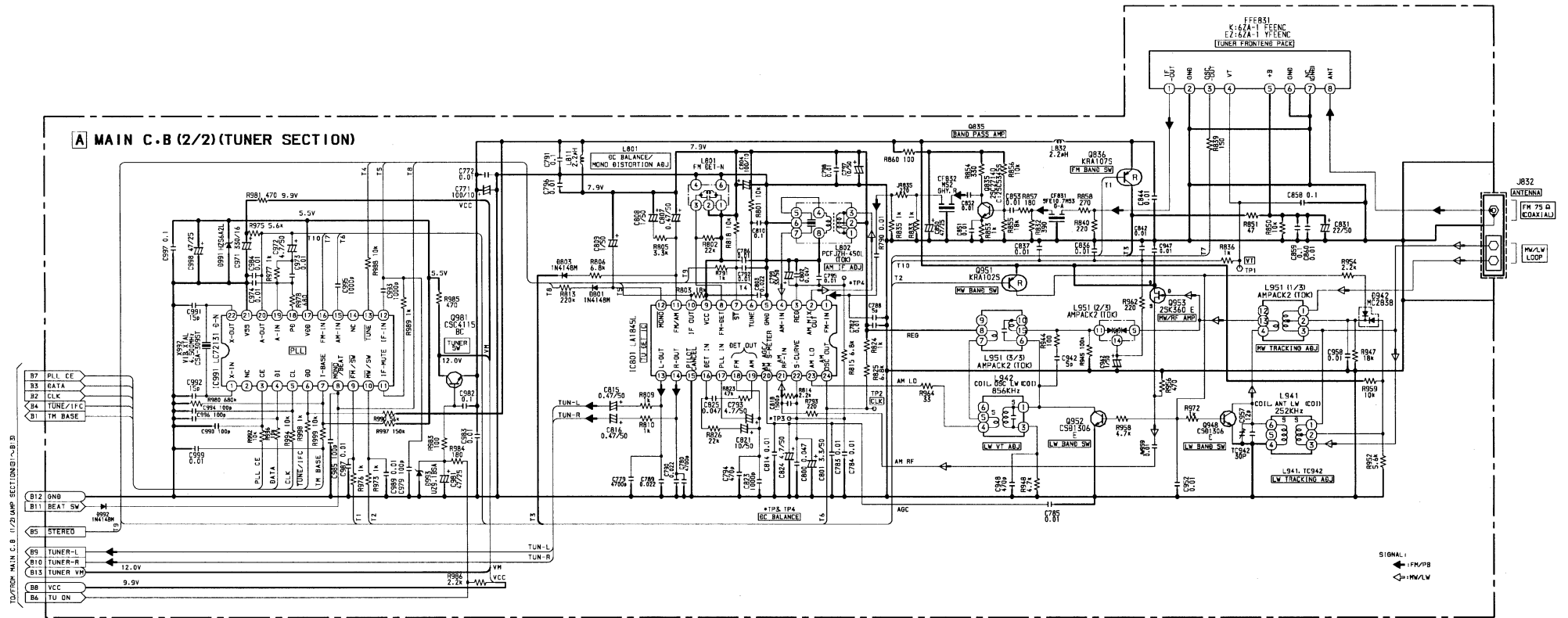
2SK360E



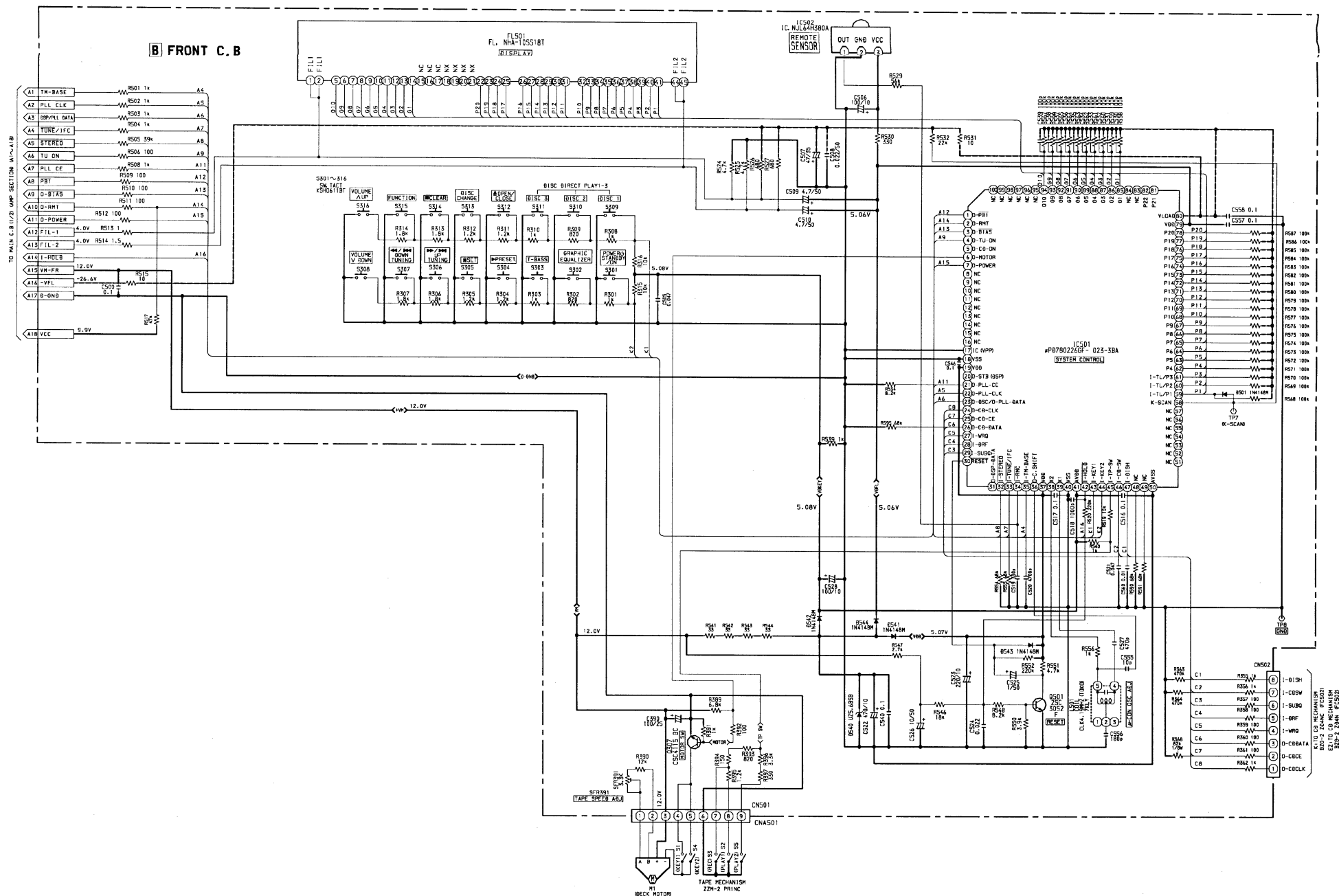
SCHEMATIC DIAGRAM-1 (MAIN 1/2:AMP SECTION)

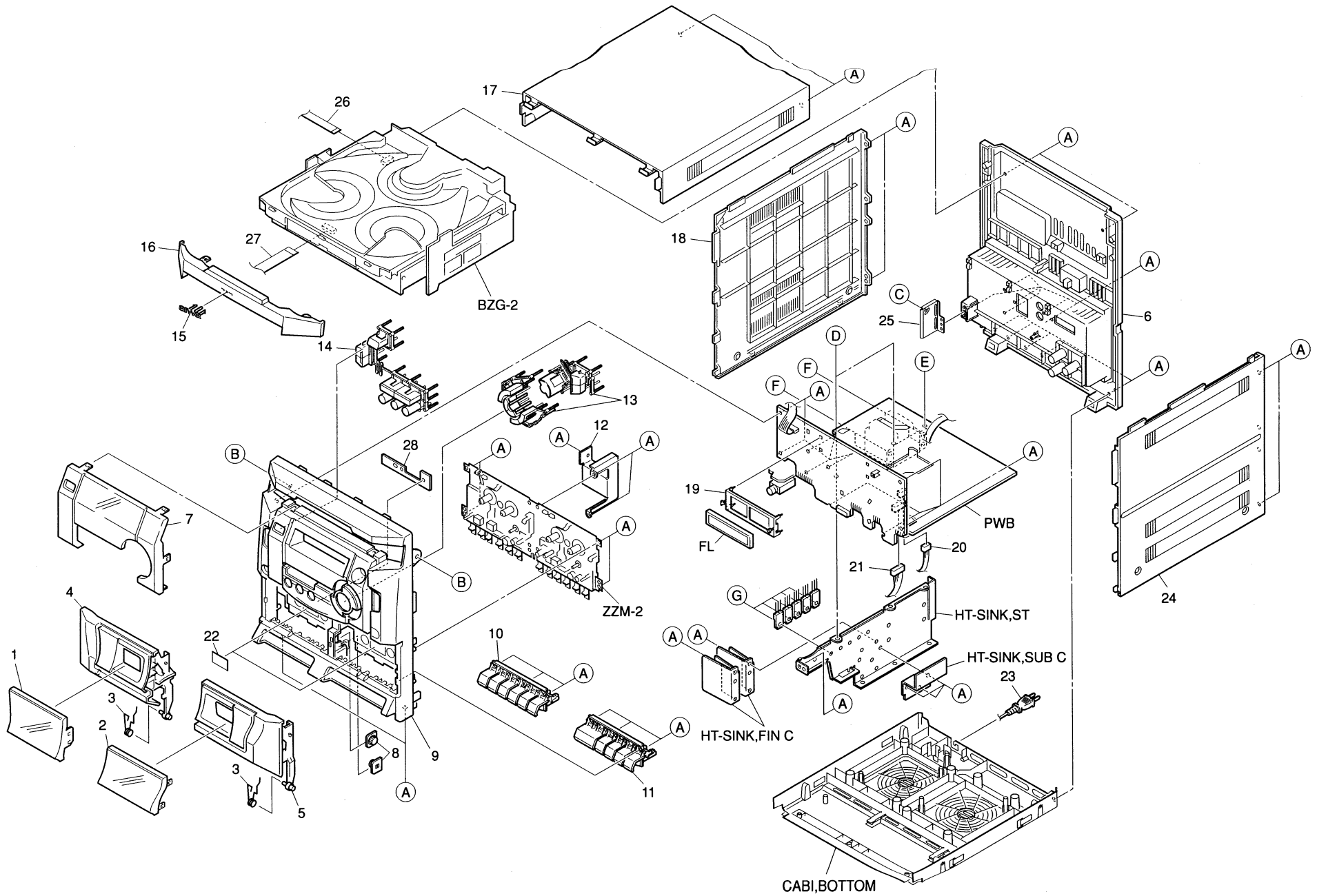


SCHEMATIC DIAGRAM-2 (MAIN 2/2:TUNER SECTION)



SCHEMATIC DIAGRAM-3 (FRONT)



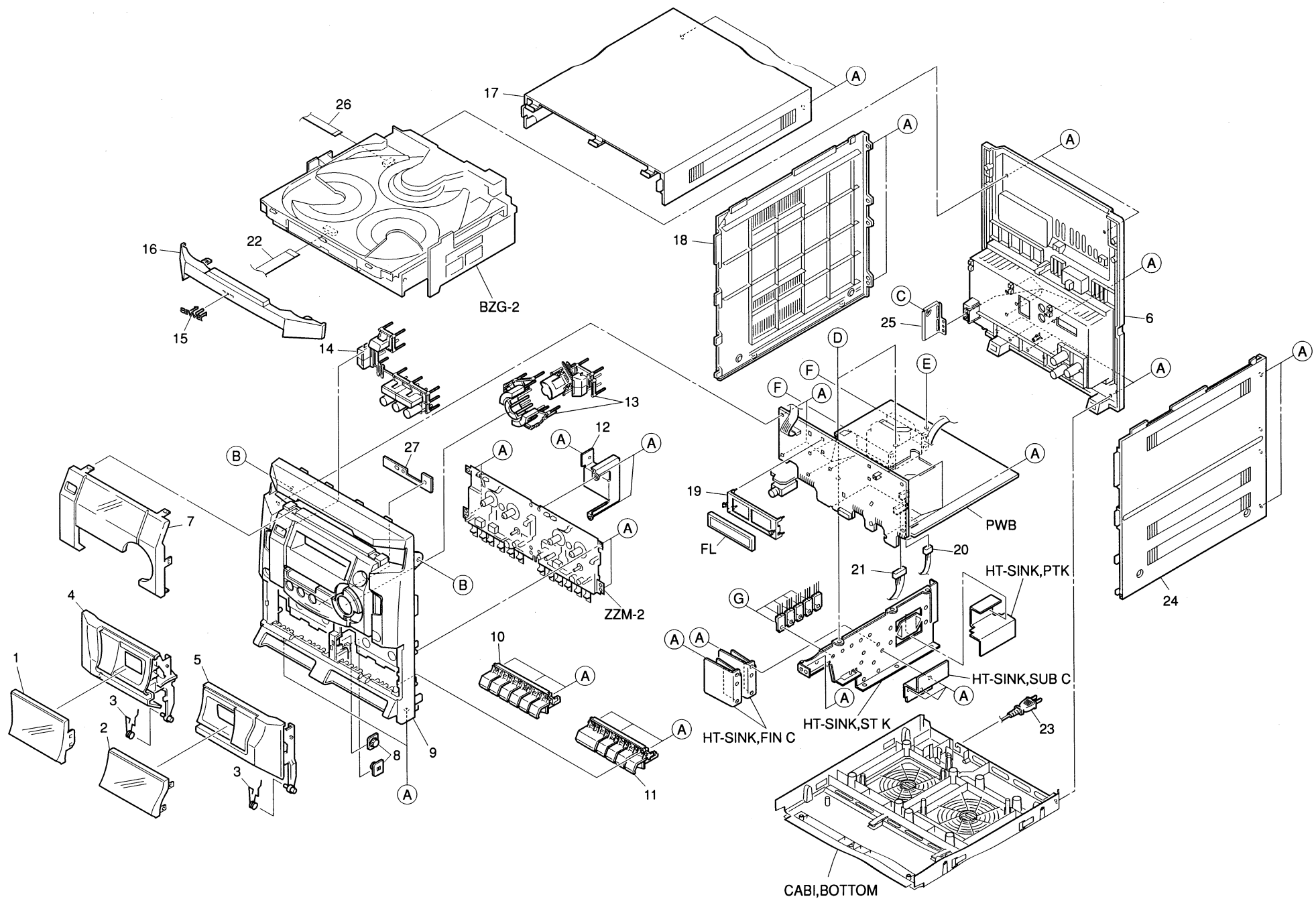


MECHANICAL PARTS LIST 1 / 1 <EZ>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	IB-NFC-048-010		WINDOW, CASS 1 BLK
2	IB-NFC-049-010		WINDOW, CASS 2 BLK
3	I2-NF7-218-010		SPR-T, CASS
4	IB-NFC-043-010		BOX, CASS 1 BLK
5	IB-NFC-044-010		BOX, CASS 2 BLK
6	IB-NFC-086-210		CABI, REAR EZB
7	IB-NFC-047-010		WINDOW, DISP EZ SZ107
8	IA-NFA-231-010		OIL-DMPR, 70
9	IB-NFC-041-010		CABI, FR EZ BLK
10	IB-NFC-050-110		KEY, CASS 1 BLK
11	IB-NFC-051-110		KEY, CASS 2 BLK
12	IA-NEC-206-010		HLDR, DECK
13	IB-NFC-053-010		KEY, PLAY BLK
14	IB-NFC-052-010		KEY, POWER BLK
15	I7-CE3-023-010		BADGE, AIWA 30N SILV
16	IB-NFC-042-010		PANEL, TRAY BLK
17	IB-NFA-093-010		PANEL, TOP BLK
18	IB-NFC-045-010		PANEL, LEFT BLK
19	IA-NFA-208-010		GUIDE, FL 100-25 ANFA
20	IB-NFC-633-010		CONN ASSY, 3P (PH)
21	IB-NFC-634-010		CONN ASSY, 8P RPB
22	I1-532-080-010		LABEL, CASS. COMPT
23	I7-A80-092-010		AC CORD ASSY, E BLK SUN FAI
24	IB-NFC-046-010		PANEL, RIGHT BLK
25	IA-NEC-201-110		HLDR, PT
26	IB-906-251-110		FF-CABLE, 6P 1.25 (RVS-FACE)
27	IB-908-201-110		FF-CABLE, 8P 1.25
28	IB-NFC-643-010		PWB HLDR WIRE
A	I7-067-703-010		TAPPING SCREW, BVT2+3-10
B	I7-721-096-410		QT2+3-10 GLD
C	I7-571-092-410		TAPPING SCREW, VIT+3-4
D	I7-067-579-010		TAPPING SCREW, BVT2+3-8
E	I7-NF4-224-010		S-SCREW, IT3B+3-8 CU
F	I7-067-975-010		S-SCREW, IT+4-8
G	I7-067-001-010		S-SCREW, BVWWST2+3-12 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray



MECHANICAL PARTS LIST 1 / 1 <K>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	3B-NFC-008-010		WINDOW, CASS 1
2	3B-NFC-009-010		WINDOW, CASS 2
3	32-NF7-218-010		SPR-T, CASS
4	3B-NFC-003-110		BOX, CASS 1
5	3B-NFC-004-110		BOX, CASS 2
6	3B-NFC-016-210		CABI, REAR KSC
7	3B-NFC-034-010		WINDOW, DISP K 103
8	3A-NFA-231-010		OIL-DMPR, 70
9	3B-NFC-001-010		CABI, FR U
10	3A-NED-010-210		KEY, CASS 1
11	3A-NED-011-110		KEY, CASS 2
12	3A-NEC-206-010		HLDR, DECK
13	3B-NFC-020-010		KEY, PLAY
14	3B-NFC-005-010		KEY, POWER
15	37-B00-002-010		BADGE, AIWA 30 ABS SIL
16	3B-NFC-002-010		PANEL, TRAY
17	3B-NFA-004-010		PANEL, TOP
18	3B-NFC-010-010		PANEL, LEFT
19	3A-NFA-208-010		GUIDE, FL 100-25 ANFA
20	3B-NFC-633-010		CONN ASSY, 3P (PH)
21	3B-NFC-634-010		CONN ASSY, 8P RPB
22	38-908-201-110		FF-CABLE, 8P 1.25
23	37-A80-157-010		AC CORD ASSY, E BLK CC
24	3B-NFC-040-010		PANEL, RIGHT K
25	3A-NEC-201-110		HLDR, PT
26	38-906-251-110		FF-CABLE, 6P 1.25 (RVS-FACE)
27	3B-NFC-643-010		PWB HLDR WIRE
A	37-067-703-010		TAPPING SCREW, BVT2+3-10
B	37-721-096-410		QT2+3-10 GLD
C	37-571-092-410		TAPPING SCREW, VIT+3-4
D	37-067-579-010		TAPPING SCREW, BVT2+3-8
E	37-NF4-224-010		S-SCREW, IT3B+3-8 CU
F	37-067-975-010		S-SCREW, IT+4-8
G	37-067-001-010		S-SCREW, BVVWST2+3-12 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

SPEAKER PARTS LIST (SX-NSZ102) <YSC>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSN-001-110		GRILLE, FRAME ASSY
2	8A-NSM-008-010		CORD, SPKR
3	8A-NSM-606-010		SPKR, 100

SPEAKER PARTS LIST (SX-NSZ107) <YBC>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSN-015-010		GRILLE, FRAME ASSY B
2	8A-NSM-008-010		CORD, SPKR
3	8A-NSM-606-010		SPKR, 100

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NFC-916-010		IB, EZ (9L) I<EZ>
1	8B-NFC-905-010		IB, K (E) S<K>
2	8Z-NF9-703-110		RC UNIT, RC-ZAS17<EZ>
2	8B-NFC-702-010		RC UNIT, RC-AAS11 (VS) <K>
3	87-006-268-010		ANT, LOOP AM

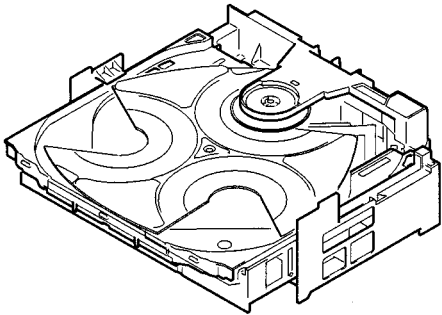
アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

2000058 0251431



BZG-2

English



SERVICE MANUAL

CD MECHANISM

BASIC CD MECHANISM :KSM2131FAM

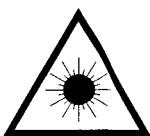
TYPE	BASIC CD MECHANISM
ZD4NC	KSM-2131FAM
YZD4NC	KSM-2131FAM
ZD4N	KSM-2131FAM
YZD4NCC	KSM-2131FAM

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

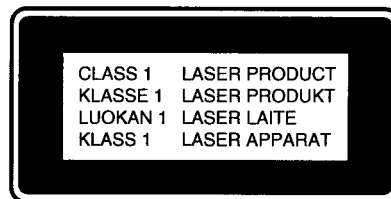
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

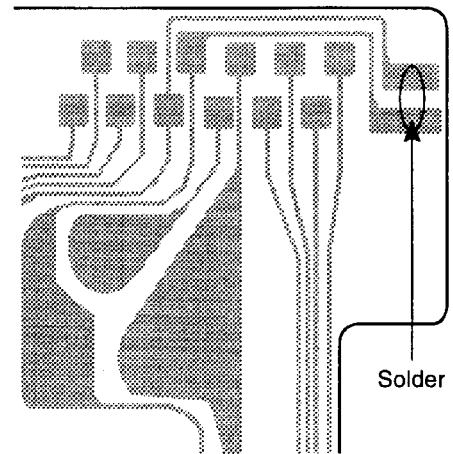


Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

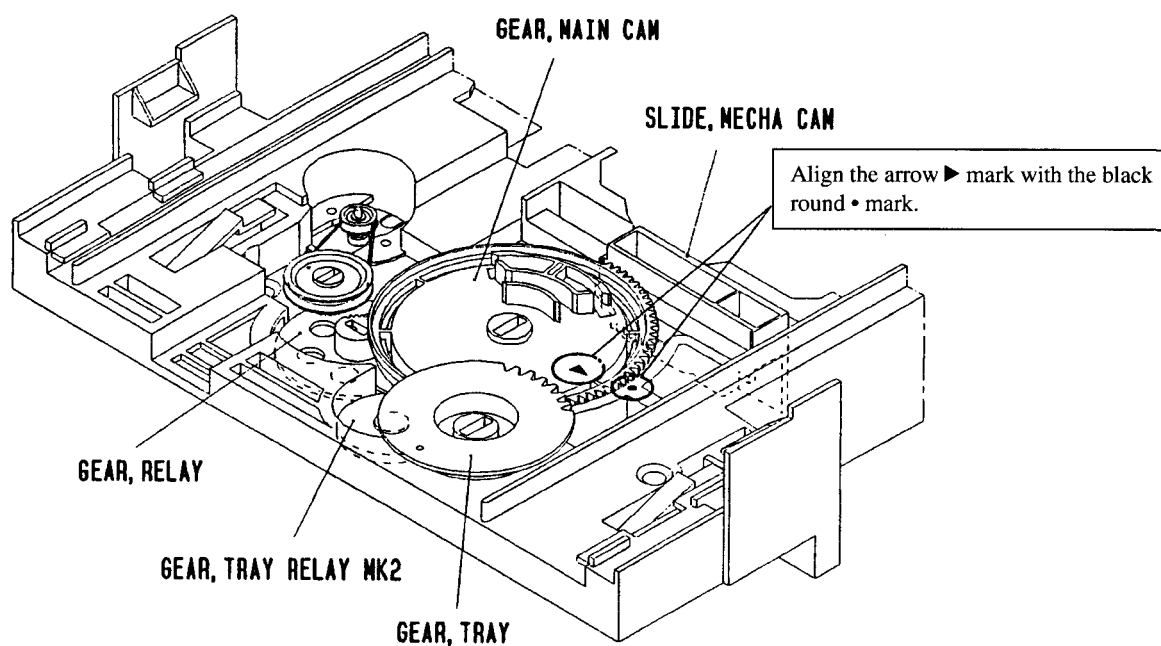
PICK-UP Assy PWB



How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST-1/2

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-821-030	C-IC,LC78645E	
	87-A21-414-010	IC,BA5927S	
TRANSISTOR			
	87-026-609-080	TR,KTA1266GR	
	87-026-610-080	TR,KTC3198GR	
	87-A30-073-080	C-TR,RT1N 141C	
	87-A30-076-080	C-TR,2SC3052F	
	87-A30-515-080	TR,2SA19790/Y	
DIODE			
	87-A40-743-080	ZENER,UZ4.3BSA	
	87-A40-747-080	ZENER,UZ5.1BSB	
	87-A40-270-080	C-DIODE,MC2838	
	87-A40-753-080	ZENER,UZ6.8BSB	
	87-020-465-080	DIODE,1SS133 (110MA)	
MAIN C.B			
C1	87-010-759-080	C-CAP,U, 0.1-25F	
C2	87-010-263-080	CAP, ELECT 100-10V	
C3	87-A10-915-080	C-CAP,U 1000P-25 J CH	
C4	87-010-759-080	C-CAP,U, 0.1-25F	
C5	87-010-263-080	CAP, ELECT 100-10V	
C6	87-010-405-080	CAP, ELECT 10-50V	
C101	87-A10-504-080	C-CAP,U 0.047-16 K B	
C102	87-010-759-080	C-CAP,U, 0.1-25F	
C103	87-012-195-080	C-CAP,U 100P-50CH	
C104	87-012-282-080	CAP, U 4700P-50	
C105	87-010-759-080	C-CAP,U, 0.1-25F	
C106	87-010-263-080	CAP, ELECT 100-10V	
C107	87-010-263-040	CAP,E 100-10	
C108	87-010-759-080	C-CAP,U, 0.1-25F	
C109	87-010-263-040	CAP,E 100-10	
C110	87-010-405-040	CAP,E 10-50	
C111	87-010-401-080	CAP, ELECT 1-50V	
C114	87-012-188-080	C-CAP,U 47P-50 CH	
C115	87-010-759-080	C-CAP,U, 0.1-25F	
C116	87-010-263-040	CAP,E 100-10	
C117	87-010-263-080	CAP, ELECT 100-10V	
C118	87-010-759-080	C-CAP,U, 0.1-25F	
C121	87-010-263-080	CAP, ELECT 100-10V	
C122	87-010-759-080	C-CAP,U, 0.1-25F	
C123	87-012-169-080	C-CAP,U 7P-50 CH	
C124	87-012-172-080	CAPACITOR CHIP U 10P CH	
C126	87-010-403-080	CAP, ELECT 3.3-50V	
C127	87-010-759-080	C-CAP,U, 0.1-25F	
C128	87-A10-504-080	C-CAP,U 0.047-16 K B	
C129	87-010-403-040	CAP,E 3.3-50 SME	
C130	87-010-759-080	C-CAP,U, 0.1-25F	
C131	87-010-759-080	C-CAP,U, 0.1-25F	
C132	87-010-263-040	CAP,E 100-10	
C133	87-010-405-080	CAP, ELECT 10-50V	
C134	87-010-759-080	C-CAP,U, 0.1-25F	

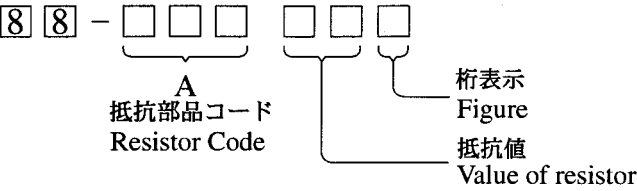
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C135	87-010-260-080	CAP, ELECT 47-25V	
C136	87-010-759-080	C-CAP,U, 0.1-25F	
C137	87-A10-915-080	C-CAP,U 1000P-25 J CH	
C138	87-010-759-080	C-CAP,U, 0.1-25F	
C160	87-016-669-080	C-CAP,S 0.1-25 K B	
C161	87-A10-484-080	C-CAP,S 1.0U-10 K B	
C203	87-010-112-080	CAP, ELECT 100-16V	
C204	87-010-759-080	C-CAP,U, 0.1-25F	
C205	87-010-263-040	CAP,E 100-10	
C208	87-010-759-080	C-CAP,U, 0.1-25F	
C212	87-010-405-040	CAP,E 10-50	
C213	87-010-759-080	C-CAP,U, 0.1-25F	
C214	87-010-759-080	C-CAP,U, 0.1-25F	
C301	87-010-382-080	CAP, ELECT 22-25V	
C302	87-010-759-080	C-CAP,U, 0.1-25F	
C303	87-010-260-080	CAP, ELECT 47-25V	
C304	87-010-759-080	C-CAP,U, 0.1-25F	
C305	87-A10-915-080	C-CAP,U 1000P-25 J CH	
C401	87-012-195-080	C-CAP,U 100P-50CH	
C402	87-012-195-080	C-CAP,U 100P-50CH	
C403	87-012-195-080	C-CAP,U 100P-50CH	
C404	87-012-195-080	C-CAP,U 100P-50CH	
C405	87-012-195-080	C-CAP,U 100P-50CH	
CN1	87-A60-429-010	CONN,16P H TOC-A	
CN202	87-A60-130-010	CONN,5P V FE	
CN301	87-A60-154-010	CONN,6P H FE	
CN401	87-099-201-010	CONN,8P 6216 H	
CNA203	84-ZG1-648-010	CONN ASSY,6P	
L101	87-005-469-080	COIL 4.7UH FLR50	
M201	87-045-305-010	MOTOR, RF-500TB DC-5V (2MA)	
R104	87-012-278-080	C-CAP,U 2200P-50 B	
R106	87-012-274-080	CHIP CAP,U 1000P-50B	
S401	87-036-109-010	PUSH SWITCH	
S402	87-036-109-010	PUSH SWITCH	
W1	8B-ZG2-601-010	FF-CABLE,16P 1.0 115MM	
W2	8B-ZG2-602-010	FF-CABLE,5P 1.25 185MM	
X101	87-A70-318-010	VIB,XTAL 33.8688MHZ CSA-309	
T-T C.B			
C401	87-A11-148-080	CAP,TC U 0.1-50 Z F	
CN401	87-A60-082-010	CONN,05P H 9604S-05F	
M401	87-A91-982-010	MOT,M25E-4 2054	
PS401	87-A90-156-010	SNSR,SG-240	
MOTOR C.B			
M2	9X-262-513-210	SLED MOTOR	
PIN3	91-564-722-110	CONNECTOR 6P	
SW1	91-572-085-110	LEAF SW	

ELECTRICAL MAIN PARTS LIST-2/2

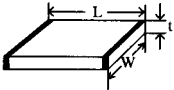
- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

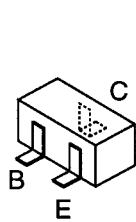
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION-1/1



2SC3052F

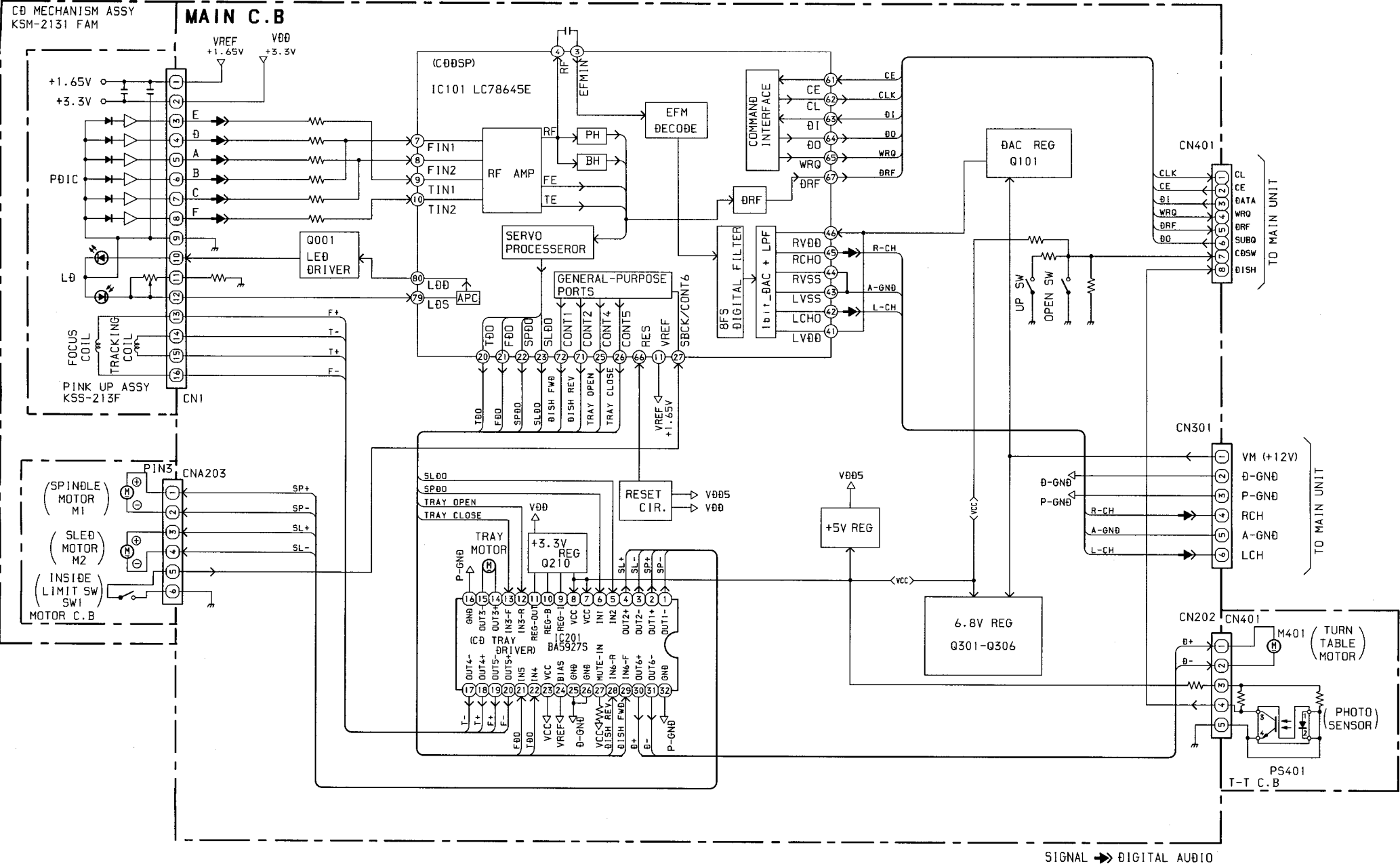


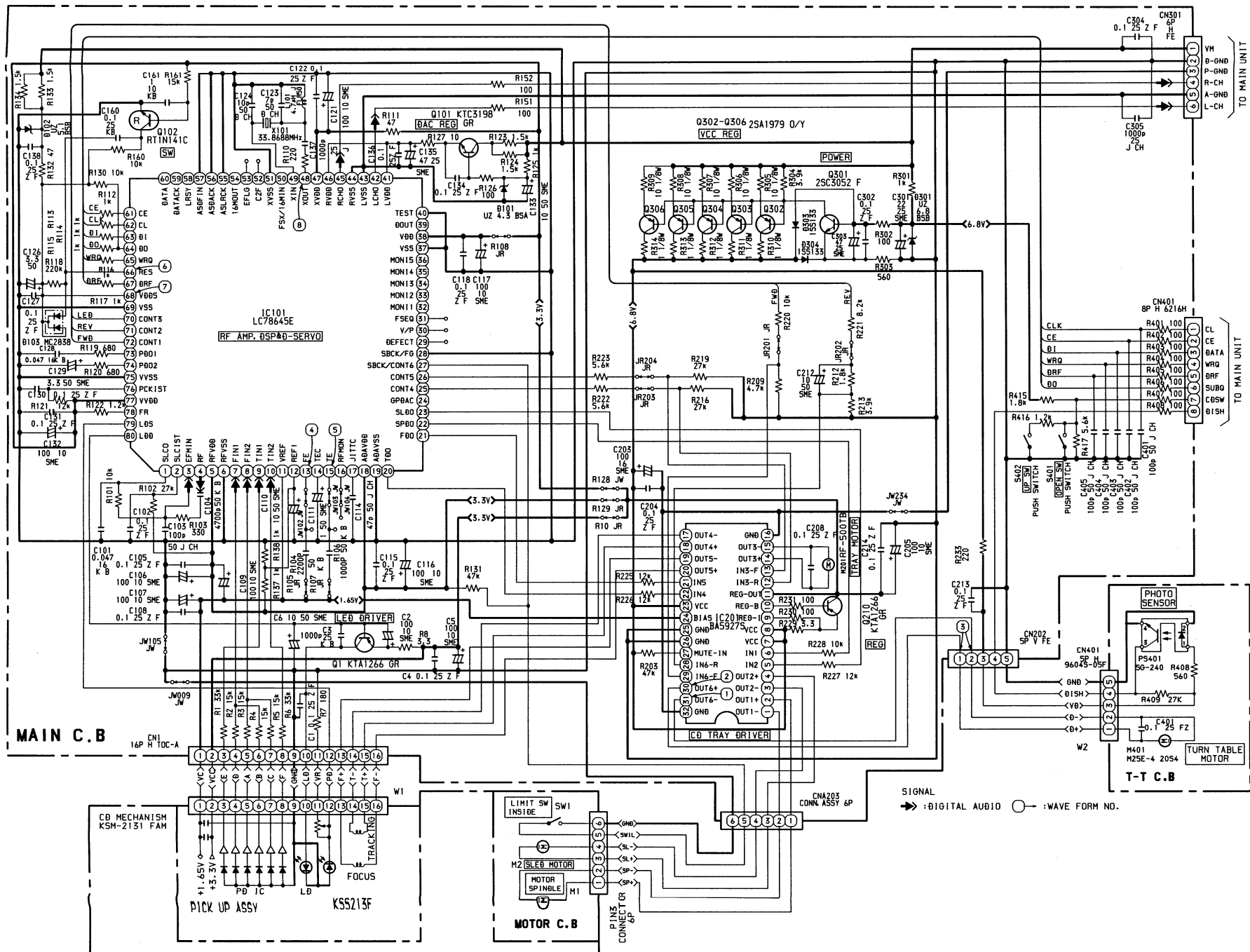
RT1N 141C



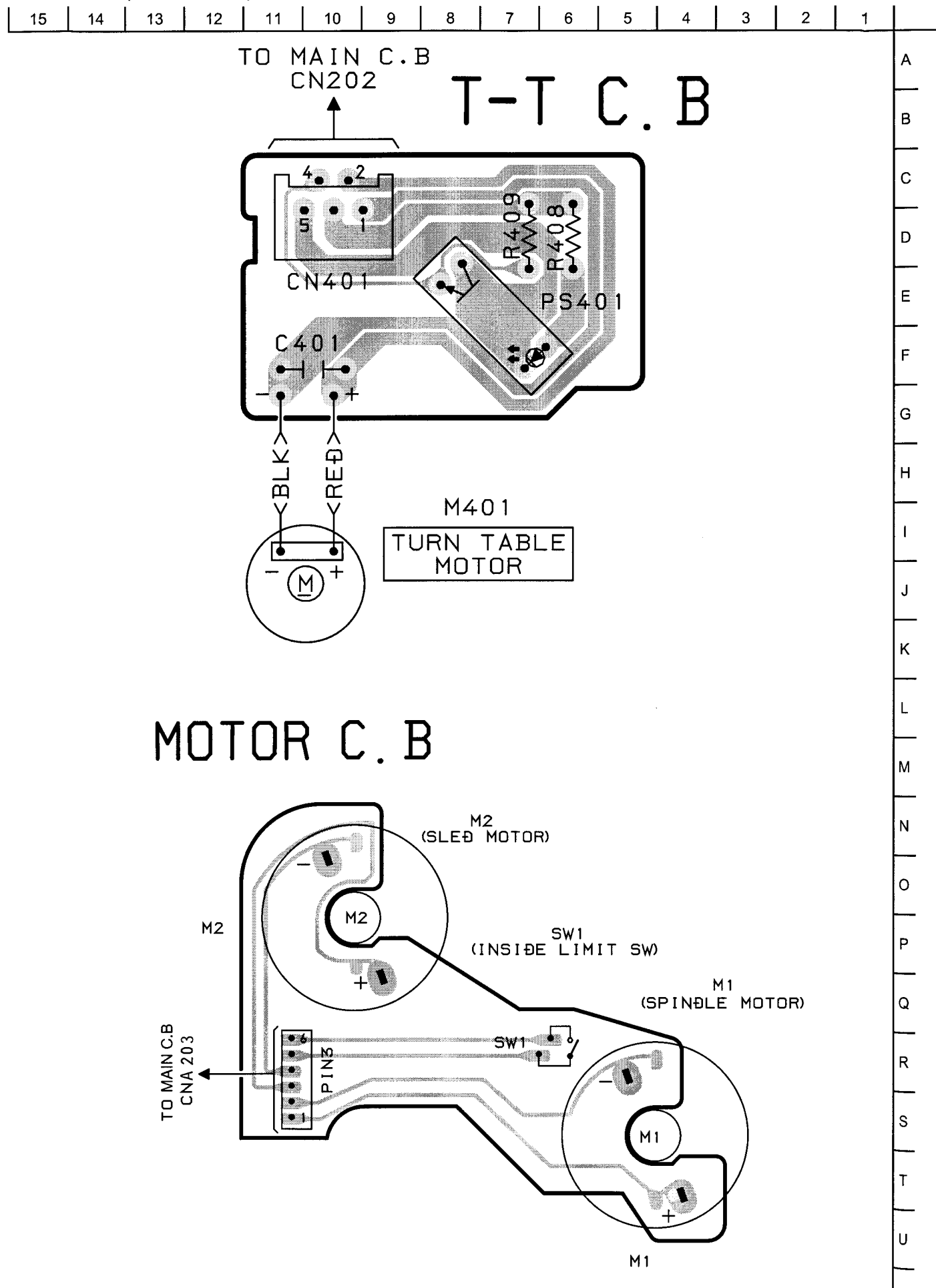
2SA19790/Y
KTA1266GR
KTC3198GR

BLOCK DIAGRAM-1/1



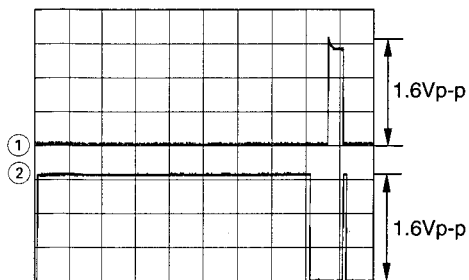


WIRING-2/2 (T-T/MOTOR)

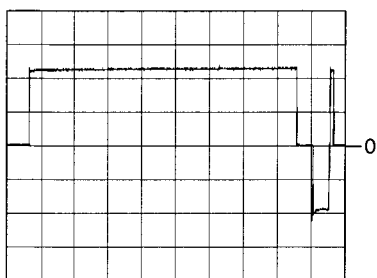


WAVE FORM-1/1

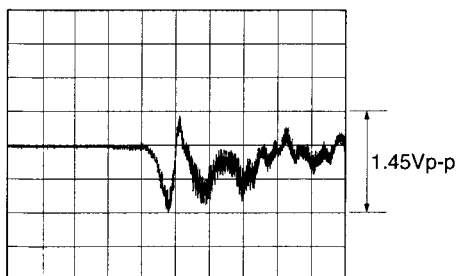
- ① IC201 ③① (OUT6-) VOLT/DIV: 500mV
TIME/DIV: 200mS
- ② IC201 ③② (OUT6+) VOLT/DIV: 500mV
TIME/DIV: 200mS



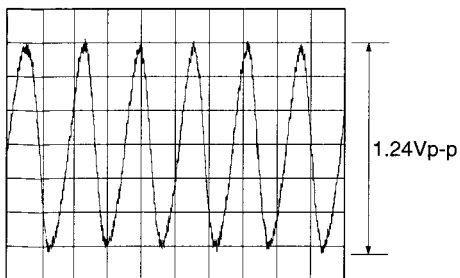
- ③ Between CN202 ① and ② ((② Pin: 0 Level) VOLT/DIV: 1V
TIME/DIV: 200mS



- ④ IC101 ⑬ (FE) VOLT/DIV: 500mV
TIME/DIV: 5mS

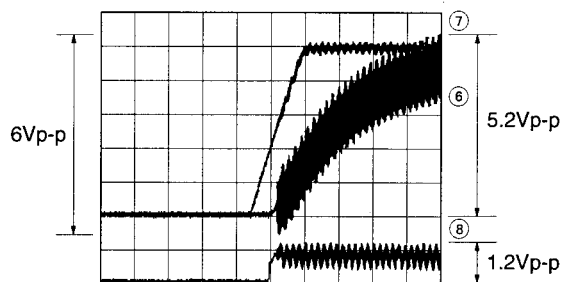


- ⑤ IC101 ⑮ (TE) VOLT/DIV: 200mV
TIME/DIV: 200μS



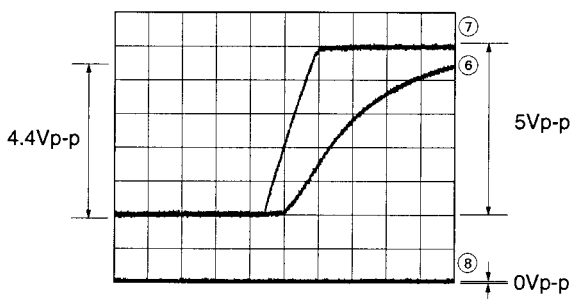
- ⑥ IC101 ⑥⑥ (RES) VOLT/DIV: 1V
TIME/DIV: 10mS
- ⑦ IC101 ⑥⑧ (VDD5)
- ⑧ IC101 ④⑧ (XOUT)

(POWER ON)

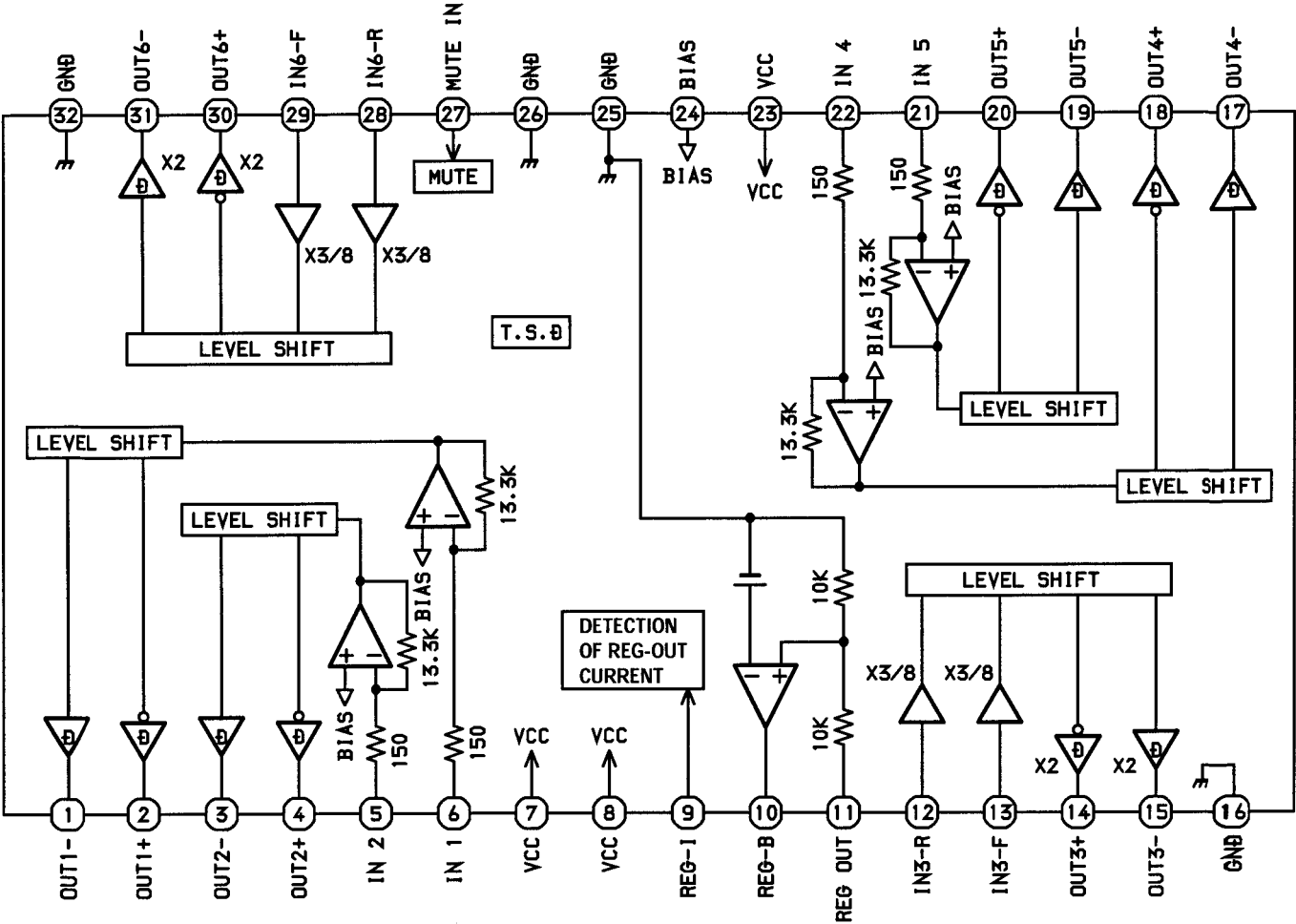


- ⑥ IC101 ⑥⑥ (RES) VOLT/DIV: 1V
TIME/DIV: 10mS
- ⑦ IC101 ⑥⑧ (VDD5)
- ⑧ IC101 ④⑧ (XOUT)

(POWER OFF)



IC BLOCK DIAGRAM-1/1
IC, BA5927S



IC DESCRIPTION-1/1 (LC78645)-1/3

Pin No.	Pin Name	I/O	Description	
1	SLCO	O	Slice level control	Control output.
2	SLCIST	I		SLCO output current adjustment resistor connection pin.
3	EFMIN	I		RF signal input pin.
4	RF	O	RF monitor pin.	
5	RFVDD	—	RF power supply pin.	
6	RFVSS	—	RF ground pin. Must be connected to 0V.	
7	FIN1	I	A+C signal input pin.	
8	FIN2	I	B+D signal input pin.	
9	TIN1	I	E signal input pin.	
10	TIN2	I	F signal input pin.	
11	VREF	O	VREF voltage output pin.	
12	REFI	I	Reference voltage output setting pin.	
13	EF	O	FE signal monitor pin.	
14	TEC	O	TE signal LPF capacitor connection pin.	
15	TE	O	TE signal monitor pin.	
16	RFMON	O	RF internal signal monitor pin.	
17	JITTC	O	Jitter detection capacitor connection pin.	
18	ADAVDD	—	Servo A/D, D/A supply pin.	
19	ADAVSS	—	Servo A/D, D/A ground pin. Must be connected to 0V.	
20	TDO	O	Tracking control output pin. D/A output.	
21	FDO	O	Focus control output pin. D/A output.	
22	SPDO	O	Spindle control output pin. D/A output.	
23	SLDO	O	Thread control output pin. D/A output.	
24	GPDAC	O	Servo D/A general-purpose output pin. (Not connected)	
25, 26	CONT4, 5	I/O	General-purpose input/output pin 4, 5.	Controlled by commands from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open.
27	SBCK/CONT6	I/O	General-purpose input/output pin 6, or subcode read clock input pin.	
28	SBCK/FG	I	Subcode read clock input pin/FG signal input pin/external emphasis setting pin. Set to command -pin function. Must be connected to 0V.	
29	DEFECT	O	Defect pin. (Not connected)	
30	V/P	O	Rouge servo/phase control automatic switching monitor output pin. “H” for rough servo and “L” for phase servo. (Not connected)	
31	FSEQ	O	Synchronization signal detection output pin. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not connected)	
32-36	MONI1, 5	O	Internal signal monitor pin 1, 5. (Not connected)	
37	VSS	—	Digital ground pin. Must be connected to 0V.	
38	VDD	—	Digital power supply pin.	
39	DOUT	O	Digital OUT output pin. (Not connected)	
40	TEST	I	Test input pin. Must be connected to 0V.	

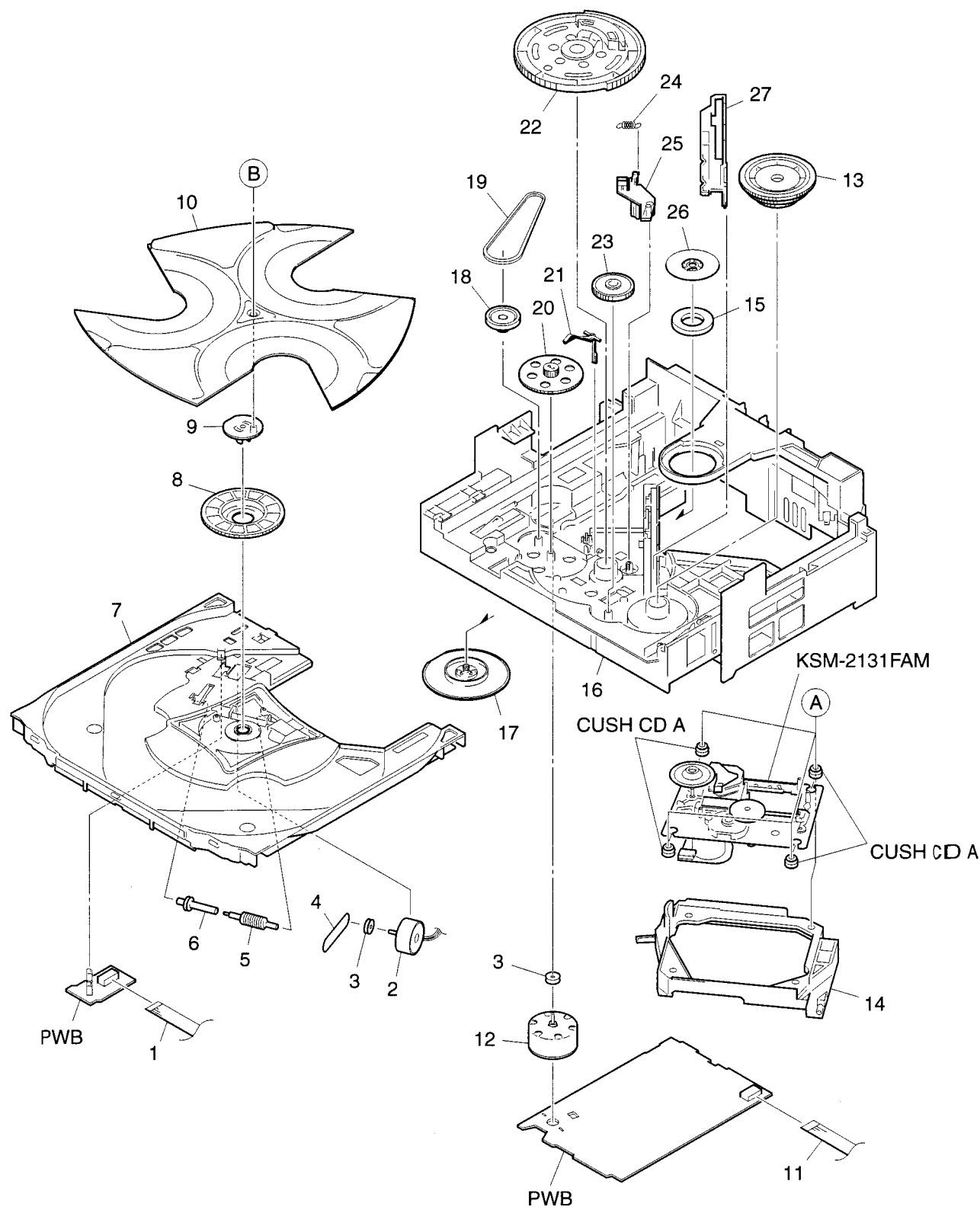
IC DESCRIPTION-1/1 (LC78645)-2/3

Pin No.	Pin Name	I/O	Description	
41	LVDD	—	L channel D/A converter	Lchannel power supply pin.
42	LCHO	O		L channel output pin.
43	LVSS	—		L channel ground pin. Must be connected to 0V.
44	RVSS	—	R channel D/A converter	R channel ground pin. Must be connected to 0V.
45	RCHO	O		R channel output pin.
46	RVDD	—		R channel power supply pin.
47	XVDD	—	Crystal oscillator	Crystal oscillator power supply pin.
48	XOUT	O		Connection for a 33.8688MHz crystal oscillator pin.
49	XIN	I		
50	FSX/16MIN	I/O	7.35kHz synchronization signal output pin. DF, DAC external clock input pin. (Not connected)	
51	XVSS	—	Crystal oscillator	Crystal oscillator ground pin. Must be connected to 0V.
52	C2F	O	C2 flag output pin. (Not connected)	
53	EFLG	O	C1, C2 error correction monitor pin. (Not connected)	
54	16MOUT	O	16.9344MHz output pin. (Not connected)	
55	ASLRCK	I	Antishock mode	L/R clock input pin. Must be connected to 0V when unused.
56	ASDACK	I		Bit clock input pin. Must be connected to 0V when unused.
57	ASDFIN	I		L/R channel data input pin. Must be connected to 0V when unused.
58	LRSY	O	Digital data output	L/R clock output pin. (Not connected)
59	DATAACK	O		Bit clock output pin. (Not connected)
60	DATA	O		L/R channel data output pin. (Not connected)
61	CE	I	Microprocessor interface	Chip enable signal input pin.
62	CL	I		Data transfer clock input pin.
63	DI	I		Data input pin.
64	DO	O		Data output pin. (Nch open drain output)
65	WRQ	O		Interruption signal output pin.
66	RES	I	Reset input pin. This pin must be set low briefly after power is first applied.	
67	DRF	O	Focus ON detect pin.	
68	VDD5	—	Microprocessor interface power supply pin.	
69	VSS	—	Digital ground pin. Must be connected to 0V.	
70	CONT3	I/O	General-purpose output pin 3. (Not connected)	Controlled by commands from the microprocessor . Must be set as an input pin and connected to 0V or set as an output pin and left open when unused.
71, 72	CONT2, 1	I/O	General-purpose output pin 2, 1.	

IC DESCRIPTION-1/1 (LC78645)-3/3

Pin No.	Pin Name	I/O	Description	
73, 74	PD01, 2	O	PLL	Phase comparison output pin 1, 2 to control built-in VCO.
75	VVSS	—		Built -in VCO GND pin. Must always be connected to 0V.
76	PCKIST	I		Resistor connection pin to set current for PD01 and 02 outputs.
77	VVDD	—		Built-in VCO power supply pin.
78	FR	I		Resistor connection pin to set the frequency range of built-in VCO.
79	LDS	I	Laser power detection signal input pin.	
80	LDD	O	Laser power control signal output pin.	

MECHANICAL EXPLODED VIEW-1/1



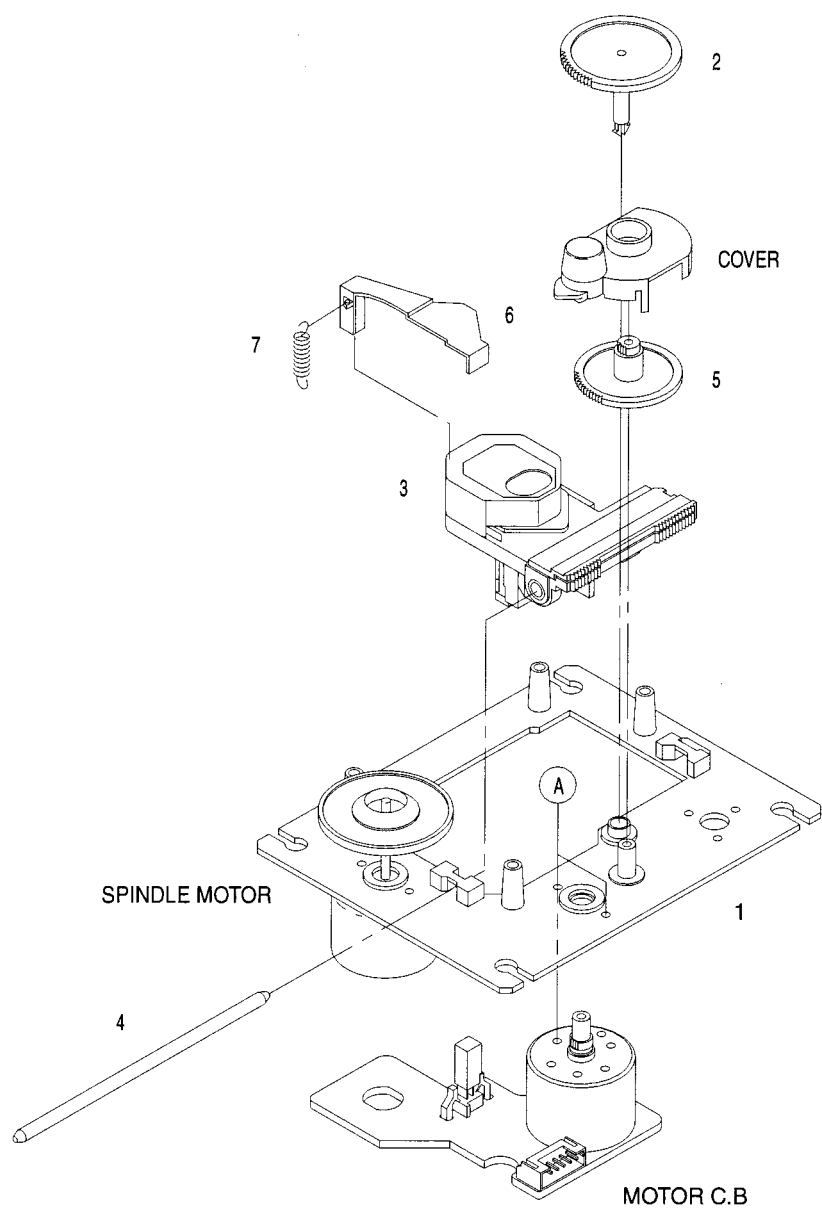
MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-ZG2-602-010		FF-CABLE,5P 1.25 185MM	15	8B-ZG2-601-010		FF-CABLE,16P 1.0 115MM<YZD4NCC>
2	87-A91-982-010		MOT,M25E-4 2054	16	8B-ZG2-201-010		CHAS,MECHA
3	84-ZG1-267-010		PULLEY,LOAD MO 8	17	84-ZG1-291-110		HLD, MAGNET 4 NAT
4	8B-ZG2-246-010		BELT,SQ 1-96.1	18	84-ZG1-271-010		PULLEY,RELAY 8
5	8B-ZG2-241-010		GEAR,WORM	19	84-ZG1-209-010		BELT,SQ1.8-117.7
6	8B-ZG2-236-010		PULLEY,WORM	20	84-ZG1-206-110		GEAR,RELAY
7	8B-ZG2-001-010		TRAY,2K	21	83-ZG3-213-010		LVR,SW
8	84-ZG1-269-010		GEAR,MAIN TT 4	22	8B-ZG2-221-010		GEAR,MAIN CAM
9	84-ZG1-288-010		LEVER,TT NAT	23	8B-ZG2-231-010		GEAR,TRAY RELAY
10	8B-ZG2-002-011		TURN TABLE,2K	24	84-ZG1-211-010		SPR-E CAM S
11	83-ZG3-604-010		RING,MAG 2	25	8B-ZG2-216-010		LEVER,CAM
12	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)	26	81-ZG1-255-110		PLATE,MAGNET MK2
13	8B-ZG2-226-010		GEAR,TRAY	27	8B-ZG2-211-010		PLATE,MECHA CAM
14	8B-ZG2-206-010		HLD,MECHA	A	81-ZG1-271-010		S-SCREW MECH REAR
15	8B-ZG2-601-010		FF-CABLE,16P 1.0 115MM<EXCEPT YZD4NCC>	B	87-B10-331-010		VF+3-6 BLK

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

CD MECHANISM EXPLODED VIEW-1/1 (KSM-2131FAM)



CD MECHANISM PARTS LIST-1/1 (KSM-2131FAM)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	9X-264-629-220		MOTOR CHASSIS ASSY (MB) (FR)
2	92-626-907-010		GEAR (A) (S)
3	87-A90-836-010		OPTICAL PICK UP KSS-213F
4	92-626-908-020		SHAFT SLED
5	92-627-003-010		GEAR (B)
6	92-646-697-020		LENS SHUTTER (F)
7	92-646-702-010		SPRIG EXTENSION
A	97-621-255-150		SCREW+P2-3

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03 (3827) 3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111